

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A process for preparing 2-alkylpolyisobutenylphenols and their Mannich adducts, by

- a) contacting at least one 2-alkylhydroxyaromatic compound with a catalytically active amount of a BF_3 source which is capable of complex formation with the 2-alkylhydroxy 2-alkylhydroxyaromatic compound, and alkylating with substantially monoethylenically unsaturated and substantially homopolymeric polyisobutenes having a number average molecular weight M_n of from 150 to 500000 and comprising at least 50 mol%, based on the total number of polyisobutene macromolecules, of terminal double bonds, wherein said BF_3 source is at least one member selected from the group consisting of gaseous BF_3 ; a BF_3 complex with at least one of the 2-alkylhydroxyaromatic compounds of said a) contacting; a BF_3 complex with a hydroxyaromatic compound which are substantially not alkylated under the reaction conditions of said a) contacting; and a mixture of BF_3 with an alcohol which comprises less than 2 mol of alcohol per mol of BF_3 , and
b) if appropriate optionally, subjecting the 2-alkylpolyisobutenylphenols obtained in step said a) contacting to an aminoalkylation.

Claim 2 (Canceled):

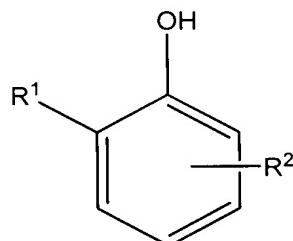
Claim 3 (Currently Amended): The process according to claim [[2]] 1, wherein the BF_3 source is a complex hydroxyaromatic compounds of the BF_3 -complexes iii) used as the BF_3 -source are selected from of one or more of 2,4,6-trialkylphenols and 4-halophenols.

Claim 4 (Currently Amended): The process according to claim 2-1, wherein the BF₃ source is a BF₃:alcohol mixture having a molar ratio of alcohol to BF₃ in the mixture of BF₃ with aliphatic alcohols iv) which is used as the BF₃-source is of at most 1.9:1.

Claim 5 (Previously Presented): The process according to claim 1, wherein the 2-alkylhydroxyaromatic compound is contacted with the BF₃ source and alkylated with the polyisobutenes at a temperature of at most 40°C.

Claim 6 (Previously Presented): The process according to claim 1, wherein the 2-alkylhydroxyaromatic compound is contacted with the BF₃ source at a temperature of at most 20°C.

Claim 7 (Currently Amended): The process according to claim 1, wherein the 2-alkylhydroxyaromatic compound ~~used for the alkylation in step a)~~ is selected from compounds of the general is a compound of formula I



(I)

where

R¹ is C₁-C₂₀-alkyl and

R² is hydrogen, C₁-C₂₀-alkyl, hydroxyl or C₂-C₄₀₀₀-alkyl which is interrupted by at least one moiety which is selected from O, S and NR³ where R³ is hydrogen, alkyl, cycloalkyl or aryl.

Claim 8 (Original): The process according to claim 7, wherein R¹ and/or R² are each a C₁-C₂₀-alkyl radical which has at least one tertiary or quaternary carbon atom.

Claim 9 (Previously Presented): The process according to claim 7, wherein R¹ is a C₁-C₂₀-alkyl radical and R² is hydrogen, and the 2-alkylpolyisobutarylphenols obtained in step a) are subjected to an aminoalkylation in step b).

Claim 10 (Previously Presented): The process according to claim 7, wherein R² is a radical other than hydrogen which is bonded to the benzene ring in the 6-position.

Claim 11 (Previously Presented): A composition comprising at least one 2-alkylpolyisobutarylphenol and/or at least one Mannich adduct thereof, prepared by a process according to claim 1.

Claim 12 (Previously Presented): The composition according to claim 11, which is prepared by alkylating at least one 2-alkylhydroxyaromatic compound of the general formula I where R¹ and/or R² are each a C₁-C₂₀-alkyl radical which has at least one tertiary or quaternary carbon atom.

Claim 13 (Original): The composition according to claim 12, which has at least 90% by weight of at least one 2-alkylpolyisobutarylphenol and/or at least one Mannich adduct thereof.

Claim 14 (Previously Presented): The composition according to claim 11 in the form of a fuel composition comprising a majority of a liquid hydrocarbon fuel.

Claim 15 (Previously Presented): The composition according to claim 11 in the form of a lubricant composition comprising a majority of a liquid, semisolid or solid lubricant.

Claim 16 (Previously Presented): A turbine fuel composition comprising a turbine or jet fuel and the composition according to claim 11.

Claim 17 (Previously Presented): An additive concentrate for turbine fuels, comprising

- at least one composition according to claim 11,
- if appropriate at least one diluent, and
- if appropriate at least one additive.

Claim 18 (Previously Presented): A method for stabilizing nonliving organic material against the action of light, oxygen, and heat by incorporating in said material a composition according to claim 11.

Claim 19 (Currently Amended): A method ~~of using as a fuel additive and for preparing fuel detergents a~~ for making a fuel composition, comprising:
mixing the 2-alkylpolyisobutylene phenol-containing composition according to claim 11 with a fuel.

Claim 20 (Currently Amended): A method ~~of using as a detergent additive in fuel and lubricant compositions a~~ composition comprising for making a fuel composition, comprising:
mixing a Mannich adduct of [[a]] the 2-alkylpolyisobutylene phenol according to claim 11 with a fuel.

Claim 21 (Currently Amended): A method for improving the thermal stability of turbine fuels [[by]] comprising:

incorporating in said fuel at least one 2-alkylpolyisobutlenylphenol and/or a Mannich adduct thereof, prepared by the process according to claim 1.

Claim 22 (Currently Amended): A method ~~of using as an additive for turbine fuels~~ for reducing deposits in the fuel system and/or combustion system of a turbine, comprising: burning a fuel comprising at least one 2-alkylpolyisobutlenylphenol and/or a Mannich adduct thereof prepared by the process according to claim 1 therein.

Claim 23 (New): The process according to claim 1, wherein the BF_3 source is not a BF_3 complex with any of an aliphatic ether, a dicycloalkyl ether, tetrahydrofuran, phenol, an arylalkyl ether or a BF_3 complex with an aliphatic alcohol that comprises two or more mols of alcohol per mol of BF_3 .

Claim 24 (New): The process according to claim 1, further comprising:
aminoalkylating the 2-alkylpolyisobutlenylphenol obtained in said a) contacting.

DISCUSSION OF THE CLAIMS

Claims 1-24 are active in the present application. The previously presented claims are amended herein for matters of form. Support for the amendment to claim 1 can be found in original claim 2, and in the specification at page 5, lines 40-42 and at page 6, lines 7-8. Claims 23-24 are new claims. Support for new Claim 24 is found in original Claim 1.

No new matter is added.